



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 5

Language: en-CA,US

Date of print: 10/Jan/2017

Anti-Seize Silver-Grade Spray

Material number 270000

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1. Product and company identification

Product identifier

Trade name: Anti-Seize Silver-Grade Spray

Relevant identified uses of the substance or mixture and uses advised against

General use: Technical aerosol. Corrosion protection agent, lubricant.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)

Transport:

TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)

2. Hazards identification

Emergency overview

Appearance: Form: Aerosol
Color: gray
Odor: solvent-like
Classification: Flammable Aerosol 1; Compressed Gas; Skin Irritation 2; Eye Irritation 2A;
Sensitization - skin 1; Aquatic toxicity - chronic 2;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see ' First aid ' on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing.
Collect spillage.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Product has an anesthetic effect.
Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.
Potentially explosive mixtures may form if adequate ventilation is not provided.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Aerosol sprays, solvent-based. Preparation of active ingredients with propellant: Propane/Butane.



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-49-0	Naphtha (petroleum), hydrotreated light	< 17 %	Flammable Liquid 2. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 1305-62-0	Calcium hydroxide	< 2.2 %	Skin Irritation 2. Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 7440-50-8	Copper	< 2 %	Acute Toxicity 4 (oral). Aquatic toxicity - acute 1. Aquatic toxicity - chronic 2.
CAS 7429-90-5	Aluminium powder (pyrophoric)	< 2 %	Flammable Solid 1.
CAS 1314-13-2	Zinc oxide	< 1.2 %	Aquatic toxicity - acute 1. Aquatic toxicity - chronic 1.
CAS -	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300	< 1 %	Sensitization - skin 1.
CAS 74-98-6	Propane	20 - 25 %	Flammable Gas 1. Compressed Gas.
CAS 106-97-8	Butane	20 - 25 %	Flammable Gas 1. Compressed Gas.

Additional information: Naphtha (petroleum), hydrotreated light: < 0,1% benzene

4. First aid measures

General information: Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After swallowing: Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: not applicable

Auto-ignition temperature: not determined

Suitable extinguishing media: Foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons: High power water jet



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Specific hazards arising from the chemical

Extremely flammable aerosol.

Heating will lead to pressure increase: Danger of bursting and explosion.

May form dangerous gases and vapours in case of fire. carbon monoxide and carbon dioxide.

Potentially explosive vapor/air mixtures may form.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Cool endangered containers with water jetspray. You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with the substance.

Eliminate all ignition sources if safe to do so. Wear appropriate protective equipment.

Keep unprotected people away.

Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Take off immediately all contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

In case of release, notify competent authorities. Danger of explosion!

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

Special danger of slipping by leaking/spilling product.

Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.

Potentially explosive mixtures may form if adequate ventilation is not provided.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray.

Avoid contact with skin and eyes. Wear appropriate protective equipment. Keep unprotected people away.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Take off immediately all contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Container under pressure. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Use only explosion-protected equipment/instruments. Do not weld.

In partially filled containers explosive mixtures may form. Vapors may form explosive mixtures with air.



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Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight. Keep at temperature not exceeding 50 °C.
Store containers in upright position. Explosion protection required. Store locked up.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.
Do not store together with acids/alkalies and oxidation agents.
Keep away from food, drink and animal feedingstuffs.



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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1305-62-0	Calcium hydroxide	Canada, Alberta: OEL 8 hour	5 mg/m ³
		Canada, BC: OEL TWA	5 mg/m ³
		Canada, Québec: VEMP	5 mg/m ³
		USA: ACGIH: TWA	5 mg/m ³
		USA: NIOSH: TWA	5 mg/m ³
		USA: OSHA: TWA	15 mg/m ³ inhalable fraction
7440-50-8	Copper	USA: OSHA: TWA	5 mg/m ³ (respirable fraction)
		Canada, Alberta: OEL 8 hour	0.2 mg/m ³ Smoke
		Canada, Alberta: OEL 8 hour	1 mg/m ³ Dusts and mist
		Canada, BC: OEL TWA	0.2 mg/m ³ Smoke
		Canada, BC: OEL TWA	1 mg/m ³
		Canada, Québec: VEMP	0.2 mg/m ³
		Canada, Québec: VEMP	1 mg/m ³
			(Smoke, calculated as Cu)
			(Dusts and mist, calculated as Cu)
		USA: ACGIH: TWA	0.2 mg/m ³ Smoke
		USA: ACGIH: TWA	1 mg/m ³
			Dusts and mist calculated as Cu
7429-90-5	Aluminium powder (pyrophoric)	USA: NIOSH: TWA	1 mg/m ³
		USA: OSHA: TWA	0.1 mg/m ³
		USA: OSHA: TWA	(Smoke; calculated as Cu)
		USA: OSHA: TWA	1 mg/m ³
			Dusts and mist calculated as Cu
		Canada, Alberta: OEL 8 hour	10 mg/m ³ (Metal Dust)
		Canada, Alberta: OEL 8 hour	5 mg/m ³
			(Pyro powders, calculated as Al)
		Canada, BC: OEL TWA	1 mg/m ³
		Canada, Québec: VEMP	10 mg/m ³ Metals
NIOSH: Ceiling	5 mg/m ³ (inhalable fraction)		
USA: ACGIH: TWA	1 mg/m ³		
USA: NIOSH: TWA	10 mg/m ³ (inhalable fraction)		
USA: NIOSH: TWA	5 mg/m ³ (inhalable fraction)		
USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)		
USA: OSHA: TWA	5 mg/m ³ (respirable fraction)		
1314-13-2	Zinc oxide	Canada, Alberta: OEL 15 min	10 mg/m ³
		Canada, Alberta: OEL 8 hour	2 mg/m ³
		Canada, BC: OEL STEL	10 mg/m ³
		Canada, BC: OEL TWA	2 mg/m ³
		Canada, Québec: VECD	10 mg/m ³ Smoke
		Canada, Québec: VEMP	10 mg/m ³ Dusts, inhalable fraction
		Canada, Québec: VEMP	5 mg/m ³ Smoke
		NIOSH: Ceiling	15 mg/m ³ Dusts
		USA: ACGIH: STEL	10 mg/m ³ (respirable fraction)
		USA: ACGIH: TWA	2 mg/m ³ (respirable fraction)
		USA: NIOSH: STEL	10 mg/m ³ Smoke
		USA: NIOSH: TWA	5 mg/m ³ Dusts
		USA: NIOSH: TWA	5 mg/m ³ Smoke
		USA: OSHA: TWA	15 mg/m ³ inhalable fraction
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)



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CAS No.	Designation	Type	Limit value
74-98-6	Propane	Canada, Alberta: OEL 8 hour	1000 ppm
		Canada, Québec: VEMP	1800 mg/m ³ ; 1000 ppm
		USA: NIOSH: TWA	1800 mg/m ³ ; 1000 ppm
		USA: OSHA: TWA	1800 mg/m ³ ; 1000 ppm
106-97-8	Butane	Canada, Alberta: OEL 8 hour	1000 ppm
		Canada, BC: OEL STEL	750 ppm
		Canada, BC: OEL TWA	600 ppm
		Canada, Ontario: OEL TWA	800 ppm
		Canada, Québec: VEMP	1900 mg/m ³ ; 800 ppm
		USA: ACGIH: TWA	2370 mg/m ³ ; 1000 ppm
		USA: NIOSH: TWA	1900 mg/m ³ ; 800 ppm

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection Flame retardant, antistatic and chemical resistant protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves).
Glove material: Nitrile rubber - Layer thickness: 0.4 mm
Breakthrough time: < 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
If higher concentrations occur: Wear self-contained breathing apparatus.

General hygiene considerations:

Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not breathe gas/vapor/spray.
Avoid contact with skin and eyes. Have eye wash bottle or eye rinse ready at work place.
Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: Aerosol Color: gray
Odor:	solvent-like
Odor threshold:	not determined
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not applicable
Flash point/flash point range:	not applicable
Evaporation rate:	No data available
Flammability:	extremely flammable aerosol



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Explosion limits:	LEL (Lower Explosion Limit): 0.60 Vol-% UEL (Upper Explosive Limit): not determined
Vapor pressure:	at 20 °C: 3500 hPa
Vapor density:	not determined
Density:	at 20 °C: 0.720 g/mL
Solubility:	not determined
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not determined
Thermal decomposition:	No decomposition when used properly.
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	> 250 °C

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Container under pressure. Heating will lead to pressure increase: Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct exposure to sunlight and temperatures exceeding 50 °C.
Incompatible materials:	Acids, alkalis, oxidizing agents. Do not store together with combustible or self-igniting materials or any highly flammable solids.
Hazardous decomposition products:	May form dangerous gases and vapours in case of fire. Carbon monoxide and carbon dioxide
Thermal decomposition:	No decomposition when used properly.



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11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.
Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Based on available data, the classification criteria are not met.
Information about Naphtha (petroleum), hydrotreated light: May be fatal if swallowed and enters airways.

Other information: Information about Naphtha (petroleum), hydrotreated light:
LD50 Rat, oral: > 5000 mg/kg (OECD 401)
LD50, Rabbit, dermal: > 2000 mg/kg (OECD 402)
LC50, Rat, inhalative: > 5.61 mg/L (OECD 403)

Symptoms

When vapors form: Inhalation causes narcotic effects/intoxication. Irritation of the mucous membrane.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

62.8 % by weight = 443 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains. Do not allow uncontrolled discharge of product into the environment.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.



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Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Spray can must be completely empty for proper waste disposal.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.1
Labels: 2.1
Special provisions: N82
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail: 75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1950
Shipping name: UN 1950, AEROSOLS
TDG class: 2.1
Special provisions: 80, 107
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 75 L

Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2.1, Subrisk-
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381,959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: yes
Segregation group: none



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Air transport (IATA)

UN/ID number:	UN 1950
Proper shipping name:	UN 1950, AEROSOLS, flammable
Class or division, Subsidiary risk:	Class 2.1
Hazard label:	Flamm. gas
Excepted Quantity Code:	E0
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions:	A145 A167 A802
Emergency Response Guide-Code (ERG):	10L

15. Regulatory information

National regulations - Canada

No data available



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National regulations - U.S. Federal Regulations

Naphtha (petroleum), hydrotreated light:	TSCA Inventory: listed; UVCB TSCA HPVC: not listed TSCA: listed - UVCB
Calcium hydroxide:	TSCA Inventory: listed TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0092
Copper:	TSCA Inventory: listed TSCA HPVC: not listed Clean Water Act: Priority Pollutant: yes Other Environmental Laws: CERCLA: RQ 5000* lbs. Marine Pollutant: listed as severe pollutant. RCRA Groundwater Monitoring: Methods 6010, 7210 / PQL 60, 200 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0150*
Aluminium powder (pyrophoric):	TSCA Inventory: listed TSCA HPVC: not listed Other Environmental Laws: SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0022
Zinc oxide:	TSCA Inventory: listed TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0675*
Propane:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f NIOSH Recommendations: Occupational Health Guideline: 0524
Butane:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f NIOSH Recommendations: Occupational Health Guideline: 0068*



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National regulations - U.S. State Regulations

Propane:

California Proposition 65 code: -
 Delaware Air Quality Management List:
 DRQ: F 1000** - RQ State: State requirements differs from Federal
 Massachusetts Haz. Substance codes: 2,4,5,6
 Minnesota Haz. Substance:
 Codes: AP - Ratings: - - Status: Title III
 New Jersey RTK Hazardous Substance:
 DOT: 1978 - Sub No.: 1594 - TPQ: -
 Pennsylvania Haz. Substance code: -
 Washington Air Contaminant:
 TWA: 1000 ppm - 1800 mg

Butane:

Delaware Air Quality Management List:
 DRQ: F 1000** - RQ State: State requirements differs from Federal
 Massachusetts Haz. Substance codes: 4,5,6
 Minnesota Haz. Substance:
 Codes: A - Ratings: - - Status: Title III
 New Jersey RTK Hazardous Substance:
 DOT: 1011 - Sub No.: 0273 - TPQ: -
 Pennsylvania Haz. Substance code: -
 Washington Air Contaminant:
 TWA: 800 ppm - 1900 mg

16. Other information

Text for labeling:

Contains < 17 % Naphtha (petroleum), hydrotreated light, < 2.2 % Calcium hydroxide, < 2 % Copper, < 2 % Aluminium powder (pyrophoric), < 1.2 % Zinc oxide, < 1 % Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300, 20 - 25 % Propane, 20 - 25 % Butane. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)
 Fire: 4 (Severe)
 Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 1 (Slight)
 Flammability: 4 (Severe)
 Physical Hazard: 1 (Slight)
 Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	4
PHYSICAL HAZARD	1
	X

Reason of change:

ADR/RID 2017, IMDG 2017

Date of first version:

5/Feb/2016

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.